

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend Claims 1-3, 15-17, 44, and 47-49 as follows:

1. (Currently Amended) An apparatus comprising:

a display device, and

a display controller operable to display a first graphical image of tabular data and, while the user is viewing the first graphical image, accept a user selected range of values for editing of the first graphical image, wherein the range of values are included within the first graphical image, accept a user selected editing function from among a plurality of possible editing functions, and alter the first graphical image to produce a second graphical image, wherein the second graphical image comprises at least one unaltered portion of the first graphical image outside of the selected range and an altered portion of the first graphical image within the selected range, the altered portion being derived from the editing function, wherein the display controller is configured to display the editing function as an editing option referencing a mathematical equation and permit a user to edit the tabular data by selecting the displayed editing function to be applied to the data display element, and wherein each of the first and second graphical images comprises a series of tabular data points displayed as a diagram depicting successive changes in the value of a selected variable associated with the tabular data.

2. (Currently Amended) The apparatus of claim 1 wherein each of the first and second graphical images is a line chart.

3. (Currently Amended) The apparatus of claim 1 wherein each of the first and second graphical images is a stacked bar chart.

4. (Original) The apparatus of claim 1 wherein the controller is configured to permit a user to edit the tabular data by adding a data display element.
5. (Previously Presented) The apparatus of claim 4 wherein the added data display element within the second graphical image is a second line within a line chart, wherein the first graphical image is a first line within the line chart.
6. (Previously Presented) The apparatus of claim 4 wherein the added data display element is a first bar within the second graphical image in a stacked bar chart and wherein the first graphical image is a first bar within the stacked bar chart.
7. (Previously Presented) The apparatus of claim 1 wherein the controller is further operable to alter the first graphical image to produce a third graphical image, wherein the third graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from a second editing function and wherein the selected editing function in step 1 and the second editing function are applied to the first graphical image over an overlapping range of values and simultaneously display the second and third graphical images to the user to permit the user to select between the second and third graphical images.  
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8. (Canceled)
9. (Canceled)
10. (Previously Presented) The apparatus of claim 1 wherein the controller is configured to display the editing function as an editing option displayed as a mathematical equation.

11. (Previously Presented) The apparatus of claim 1 wherein the controller is configured to display the editing function as an editing option referencing a graphical representation of a mathematical equation.

12. (Original) The apparatus of claim 11 wherein the graphical representation is a line chart.

13. (Original) The apparatus of claim 11 wherein the graphical representation is a bar chart.

14. (Canceled)

15. (Currently Amended) A method of interactively displaying tabular data comprising the steps of:

(A) displaying a first graphical image representative of tabular data;

5 (B) accepting a user selected range of values for editing of the first graphical image, wherein the range of values are included within the first graphical image;

(C) accepting a user selected editing function from among a plurality of possible editing functions;

10 (D) altering the first graphical image to produce a second graphical image, wherein the second graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from the editing function; and

(E) displaying the editing function as an editing option referencing a mathematical equation, wherein each of the first and second graphical images comprises a series of tabular data points displayed as a diagram depicting successive changes in the value of a selected variable associated with the tabular data and wherein step B is performed while the user is viewing the first graphical image.

16. (Currently Amended) The method of claim 15 wherein the step (A) of displaying a first graphical image representative of tabular data further comprises the step of:

(A1) displaying the tabular data as a line chart, wherein each of the first and second graphical images is a line in the line chart.

17. (Currently Amended) The method of claim 15 wherein the step (A) of displaying a first graphical image representative of tabular data further comprises the step of:

(A2) displaying the tabular data as a stacked bar chart, wherein each of the first and second graphical images is a bar in the stacked bar chart.

18. (Previously Presented) The method of claim 15 further comprising the step of: accepting input from a user to edit the tabular data by adding a data display element.

19. (Previously Presented) The method of claim 18 wherein the step of adding a data display element comprises of:

adding a line within a line chart.

20. (Previously Presented) The method of claim 18 wherein the step of adding a data display element comprises the step of:

adding a bar within a stacked bar chart.

21. (Previously Presented) The method of claim 15 further comprising the steps of:

altering the first graphical image to produce a third graphical image, wherein the third graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from a second editing function and wherein

the selected editing function and the second editing function are applied to the first graphical image over an overlapping range of values; and

simultaneously displaying the second and third graphical images to the user to permit the user to select between the second and third graphical images.

22. (Previously Presented) The method of claim 15 further comprising the step of: being responsive to the selection by a user of a data display element by editing a tabular data corresponding to that data display element.

23. (Previously Presented) The method of claim 22 further comprising the step of: being responsive to the selection by a user of an editing function by applying the editing function to a data display element.

24. (Canceled)

25. (Previously Presented) The method of claim 15 further comprising the step of: displaying the editing function as an editing option referencing a graphical representation of a mathematical equation.

26. (Previously Presented) The method of claim 25 wherein the displaying step further comprises the step of:  
displaying a line chart as the graphical representation.

27. (Previously Presented) The method of claim 25 wherein the displaying step further comprises the step of:  
displaying a bar chart as the graphical representation.

28-34. (Canceled)

35. (Previously Presented) The apparatus of claim 1, further comprising:  
a simulator configured to receive tabular data edited by a user employing the  
controller

36. (Previously Presented) The method of claim 15, further comprising:  
accepting graphically edited tabular data; and  
performing a simulation using the graphically edited tabular data.

37. (Previously Presented) The method of claim 15, further comprising:  
providing a plurality of affordances on the second graphical image; and  
accepting alterations to the second graphical image derived from user manipulation  
of the affordances.

38. (Previously Presented) A computer readable medium comprising instructions  
to perform the steps of claim 15.

39. (Previously Presented) A method of interactively displaying tabular data  
comprising the steps of:

displaying a first graphical image representative of tabular data;  
accepting from a user a selected range of values for editing of the first graphical  
image, wherein the range of values are included within the first graphical image;  
accepting from the user first and second editing functions to edit the first graphical  
image in the selected range;

altering the first graphical image within the selected range according to the first editing function to produce a second graphical image and according to the second editing function to produce a third graphical image; and  
10 simultaneously displaying the second and third graphical images to the user.

40. (Previously Presented) The method of claim 39, further comprising:  
receiving from the user an election to use the second graphical image; and  
storing the second graphical image as the correct graphical image within the selected range.

41. (Previously Presented) The method of claim 40, wherein the second graphical image comprises at least an altered portion of the first graphical image derived from the first editing function and an unaltered portion of the first graphical image.

42. (Previously Presented) The method of claim 41, wherein the altered portion of the first graphical image is within the selected range and the unaltered portion is outside of the selected range.

43. (Previously Presented) The method of claim 39, wherein the first graphical image comprises a plurality of affordances and further comprising:  
accepting alterations to the first graphical image derived from user manipulation of the affordances.

44. (Currently Amended) A method of interactively displaying tabular data comprising the steps of:  
displaying a first graphical image representative of tabular data, the first graphical image comprising a plurality of affordances;

- 5           accepting alterations to the ~~second~~ first graphical image derived from user manipulation of the affordances;
- accepting a user selected range of values for editing of the first graphical image, wherein the range of values are included within the first graphical image;
- 10           accepting a user selected editing function from among a plurality of possible editing functions;
- altering the first graphical image to produce a second graphical image, wherein the second graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from the selected editing function;
- 15           altering the first graphical image to produce a third graphical image, wherein the third graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from a second editing function and wherein the selected editing function and the second editing function are applied to the first graphical image over an overlapping range of values; and
- simultaneously displaying the second and third graphical images to the user to permit
- 20           the user to select between the second and third graphical images.

45-46. (Canceled)

47. (Currently Amended) A method of interactively displaying tabular data comprising the steps of:
- (A) displaying a first graphical image representative of tabular data;
- (B) accepting a user selected range of values for editing of the first graphical
- 5           image, wherein the range of values are included within the first graphical image;
- (C) accepting a user selected editing function from among a plurality of possible editing functions;

- 10 (D) altering the first graphical image to produce a second graphical image, wherein the second graphical image comprises at least an unaltered portion of the first graphical image and an altered portion of the first graphical image derived from the editing function; and
- 15 (E) displaying the editing function as an editing option in the form of a graphical representation of a mathematical equation, wherein each of the first and second graphical images comprises a series of tabular data points displayed as a diagram depicting successive changes in the value of a selected variable associated with the tabular data and wherein steps B and C are performed while the user is viewing the first graphical image.

48. (Currently Amended) The method of claim 47 wherein the displaying step further comprises the step of:

displaying a line chart as the graphical representation and wherein the second graphical representation is a line chart.

49. (Currently Amended) The method of claim 47 wherein the displaying step further comprises the step of:

displaying a bar chart as the graphical representation and wherein the second graphical representation is a bar chart.